

Main Criteria: Forward Education
Secondary Criteria: Washington DC Academic Standards
Subjects: Mathematics, Science, Technology Education
Grades: 11, 12, Key Stage 4

Forward Education

Autonomous Electric Vehicles of the Future

Washington DC Academic Standards

Mathematics

Grade 11 - Adopted: 2010

CONTENT STANDARD / STRAND / DISCIPLINE	DC.CC.M.P.	Mathematical Practices
-----------------------------------------------	-------------------	-------------------------------

STANDARD / ESSENTIAL SKILL	MP-1.	Make sense of problems and persevere in solving them.
STANDARD / ESSENTIAL SKILL	MP-2.	Reason abstractly and quantitatively.
STANDARD / ESSENTIAL SKILL	MP-3.	Construct viable arguments and critique the reasoning of others.
STANDARD / ESSENTIAL SKILL	MP-4.	Model with mathematics.
STANDARD / ESSENTIAL SKILL	MP-8.	Look for and express regularity in repeated reasoning.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.CC.A.	Algebra
-----------------------------------------------	-----------------	----------------

STANDARD / ESSENTIAL SKILL	A-CED.	Creating Equations
STUDENT EXPECTATION / ESSENTIAL SKILL		Create equations that describe numbers or relationships.

EXPECTATION	A-CED.2.	Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.
-------------	----------	-----------------------------------------------------------------------------------------------------------------------------------------------------

CONTENT STANDARD / STRAND / DISCIPLINE	DC.CC.A.	Algebra
-----------------------------------------------	-----------------	----------------

STANDARD / ESSENTIAL SKILL	A-REI.	Reasoning with Equations and Inequalities
-----------------------------------	---------------	--------------------------------------------------

STUDENT EXPECTATION / ESSENTIAL SKILL		Understand solving equations as a process of reasoning and explain the reasoning.
----------------------------------------------	--	------------------------------------------------------------------------------------------

EXPECTATION A-REI.1. Explain each step in solving a simple equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.CC.F. Functions	
-----------------------------------------------	---------------------------	--

STANDARD / ESSENTIAL SKILL	F-IF. Interpreting Functions	
-----------------------------------	-------------------------------------	--

STUDENT EXPECTATION / ESSENTIAL SKILL		Analyze functions using different representations.
----------------------------------------------	--	-----------------------------------------------------------

EXPECTATION	F-IF.7.	Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.
--------------------	----------------	------------------------------------------------------------------------------------------------------------------------------------------------------------

SKILL F-IF.7.a. Graph linear and quadratic functions and show intercepts, maxima, and minima.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.CC.F. Functions	
-----------------------------------------------	---------------------------	--

STANDARD / ESSENTIAL SKILL	F-LE. Linear and Exponential Models	
-----------------------------------	--------------------------------------------	--

STUDENT EXPECTATION / ESSENTIAL SKILL		Construct and compare linear and exponential models and solve problems.
----------------------------------------------	--	--------------------------------------------------------------------------------

EXPECTATION	F-LE.1.	Distinguish between situations that can be modeled with linear functions and with exponential functions.
--------------------	----------------	-----------------------------------------------------------------------------------------------------------------

SKILL F-LE.1.a. Prove that linear functions grow by equal differences over equal intervals, and that exponential functions grow by equal factors over equal intervals.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.CC.G. Geometry	
-----------------------------------------------	--------------------------	--

STANDARD / ESSENTIAL SKILL	G-GPE. Expressing Geometric Properties with Equations	
-----------------------------------	--------------------------------------------------------------	--

STUDENT EXPECTATION / ESSENTIAL SKILL		Use coordinates to prove simple geometric theorems algebraically
----------------------------------------------	--	-------------------------------------------------------------------------

EXPECTATION G-GPE.5. Prove the slope criteria for parallel and perpendicular lines and use them to solve geometric problems (e.g., find the equation of a line parallel or perpendicular to a given line that passes through a given point).

CONTENT STANDARD / STRAND / DISCIPLINE	DC.CC.M.P.	Mathematical Practices
-----------------------------------------------	-------------------	-------------------------------

STANDARD / ESSENTIAL SKILL	MP-1.	Make sense of problems and persevere in solving them.
STANDARD / ESSENTIAL SKILL	MP-2.	Reason abstractly and quantitatively.
STANDARD / ESSENTIAL SKILL	MP-3.	Construct viable arguments and critique the reasoning of others.
STANDARD / ESSENTIAL SKILL	MP-4.	Model with mathematics.
STANDARD / ESSENTIAL SKILL	MP-8.	Look for and express regularity in repeated reasoning.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.CC.A.	Algebra
-----------------------------------------------	-----------------	----------------

STANDARD / ESSENTIAL SKILL	A-CED.	Creating Equations
-----------------------------------	---------------	---------------------------

STUDENT EXPECTATION / ESSENTIAL SKILL		Create equations that describe numbers or relationships.
----------------------------------------------	--	-----------------------------------------------------------------

EXPECTATION	A-CED.2.	Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.
-------------	----------	-----------------------------------------------------------------------------------------------------------------------------------------------------

CONTENT STANDARD / STRAND / DISCIPLINE	DC.CC.A.	Algebra
-----------------------------------------------	-----------------	----------------

STANDARD / ESSENTIAL SKILL	A-REI.	Reasoning with Equations and Inequalities
-----------------------------------	---------------	--------------------------------------------------

STUDENT EXPECTATION / ESSENTIAL SKILL		Understand solving equations as a process of reasoning and explain the reasoning.
----------------------------------------------	--	------------------------------------------------------------------------------------------

EXPECTATION	A-REI.1.	Explain each step in solving a simple equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method.
-------------	----------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

CONTENT STANDARD / STRAND / DISCIPLINE	DC.CC.F.	Functions
STANDARD / ESSENTIAL SKILL	F-IF.	Interpreting Functions
STUDENT EXPECTATION / ESSENTIAL SKILL		Analyze functions using different representations.
EXPECTATION	F-IF.7.	Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.

SKILL F-IF.7.a. Graph linear and quadratic functions and show intercepts, maxima, and minima.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.CC.F.	Functions
STANDARD / ESSENTIAL SKILL	F-LE.	Linear and Exponential Models
STUDENT EXPECTATION / ESSENTIAL SKILL		Construct and compare linear and exponential models and solve problems.
EXPECTATION	F-LE.1.	Distinguish between situations that can be modeled with linear functions and with exponential functions.

SKILL F-LE.1.a. Prove that linear functions grow by equal differences over equal intervals, and that exponential functions grow by equal factors over equal intervals.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.CC.G.	Geometry
STANDARD / ESSENTIAL SKILL	G-GPE.	Expressing Geometric Properties with Equations
STUDENT EXPECTATION / ESSENTIAL SKILL		Use coordinates to prove simple geometric theorems algebraically

EXPECTATION G-GPE.5. Prove the slope criteria for parallel and perpendicular lines and use them to solve geometric problems (e.g., find the equation of a line parallel or perpendicular to a given line that passes through a given point).

Washington DC Academic Standards

Science

Grade 11 - Adopted: 2013

CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-PS.	PHYSICAL SCIENCE
STANDARD / ESSENTIAL SKILL	HS-PS1.	Matter and Its Interactions

STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:
----------------------------------------------	--	----------------------------------------------------

EXPECTATION HS-PS1-4. Develop a model to illustrate that the release or absorption of energy from a chemical reaction system depends upon the changes in total bond energy.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-PS.	PHYSICAL SCIENCE
STANDARD / ESSENTIAL SKILL	HS-PS3.	Energy
STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:

EXPECTATION HS-PS3-3. Design, build, and refine a device that works within given constraints to convert one form of energy into another form of energy.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-PS.	PHYSICAL SCIENCE
STANDARD / ESSENTIAL SKILL	HS-PS4.	Waves and Their Applications in Technologies for Information Transfer
STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:

EXPECTATION HS-PS4-2. Evaluate questions about the advantages of using a digital transmission and storage of information.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-LS.	LIFE SCIENCE
STANDARD / ESSENTIAL SKILL	HS-LS2.	Ecosystems: Interactions, Energy, and Dynamics
STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:

EXPECTATION HS-LS2-7. Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-ESS.	EARTH AND SPACE SCIENCE
STANDARD / ESSENTIAL SKILL	HS-ESS2.	Earth's Systems

STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:
----------------------------------------------	--	----------------------------------------------------

EXPECTATION HS-ESS2-4. Use a model to describe how variations in the flow of energy into and out of Earth's systems result in changes in climate.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-ESS.	EARTH AND SPACE SCIENCE
-----------------------------------------------	-------------------	--------------------------------

STANDARD / ESSENTIAL SKILL	HS-ESS3.	Earth and Human Activity
-----------------------------------	-----------------	---------------------------------

STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:
----------------------------------------------	--	----------------------------------------------------

EXPECTATION HS-ESS3-1. Construct an explanation based on evidence for how the availability of natural resources, occurrence of natural hazards, and changes in climate have influenced human activity.

EXPECTATION HS-ESS3-2. Evaluate competing design solutions for developing, managing, and utilizing energy and mineral resources based on cost-benefit ratios.

EXPECTATION HS-ESS3-3. Create a computational simulation to illustrate the relationships among management of natural resources, the sustainability of human populations, and biodiversity.

EXPECTATION HS-ESS3-4. Evaluate or refine a technological solution that reduces impacts of human activities on natural systems.

EXPECTATION HS-ESS3-6. Use a computational representation to illustrate the relationships among Earth systems and how those relationships are being modified due to human activity.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-ETS.	ENGINEERING DESIGN
-----------------------------------------------	-------------------	---------------------------

STANDARD / ESSENTIAL SKILL	HS-ETS1.	Engineering Design
-----------------------------------	-----------------	---------------------------

STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:
----------------------------------------------	--	----------------------------------------------------

EXPECTATION HS-ETS1-1. Analyze a major global challenge to specify qualitative and quantitative criteria and constraints for solutions that account for societal needs and wants.

EXPECTATION HS-ETS1-2. Design a solution to a complex real-world problem by breaking it down into smaller, more manageable problems that can be solved through engineering.

EXPECTATION HS-ETS1-3. Evaluate a solution to a complex real-world problem based on prioritized criteria and trade-offs that account for a range of constraints, including cost, safety, reliability, and aesthetics, as well as possible social, cultural, and environmental impacts.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.11-12.RST.	Reading Standards for Literacy in Science and Technical Subjects
STANDARD / ESSENTIAL SKILL		Key Ideas and Details

STUDENT EXPECTATION / ESSENTIAL SKILL 11-12.RST.2. Determine the central ideas or conclusions of a text; summarize complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms.

STUDENT EXPECTATION / ESSENTIAL SKILL 11-12.RST.3. Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.11-12.RST.	Reading Standards for Literacy in Science and Technical Subjects
STANDARD / ESSENTIAL SKILL		Craft and Structure

STUDENT EXPECTATION / ESSENTIAL SKILL 11-12.RST.4. Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 11-12 texts and topics.

STUDENT EXPECTATION / ESSENTIAL SKILL 11-12.RST.5. Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.11-12.RST.	Reading Standards for Literacy in Science and Technical Subjects
STANDARD / ESSENTIAL SKILL		Integration of Knowledge and Ideas

STUDENT EXPECTATION / ESSENTIAL SKILL 11-12.RST.9. Synthesize information from a range of sources (e.g., texts, experiments, simulations) into a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.11-12.RST.	Reading Standards for Literacy in Science and Technical Subjects
STANDARD / ESSENTIAL SKILL		Range of Reading and Level of Text Complexity

STUDENT EXPECTATION / ESSENTIAL SKILL	11-12.RST.10	By the end of grade 12, read and comprehend science/technical texts in the grades 11-12 text complexity band independently and proficiently.
---------------------------------------	--------------	----------------------------------------------------------------------------------------------------------------------------------------------

CONTENT STANDARD / STRAND / DISCIPLINE	DC.11-12.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STANDARD / ESSENTIAL SKILL		Text Types and Purposes
STUDENT EXPECTATION / ESSENTIAL SKILL	11-12.WHST.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.

EXPECTATION	11-12.WHST.2.d.	Use precise language, domain-specific vocabulary and techniques such as metaphor, simile, and analogy to manage the complexity of the topic; convey a knowledgeable stance in a style that responds to the discipline and context as well as to the expertise of likely readers.
-------------	-----------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

CONTENT STANDARD / STRAND / DISCIPLINE	DC.11-12.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STANDARD / ESSENTIAL SKILL		Production and Distribution of Writing

STUDENT EXPECTATION / ESSENTIAL SKILL	11-12.WHST.4.	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.
---------------------------------------	---------------	--------------------------------------------------------------------------------------------------------------------------------------

STUDENT EXPECTATION / ESSENTIAL SKILL	11-12.WHST.6.	Use technology, including the Internet, to produce, publish, and update individual or shared writing products in response to ongoing feedback, including new arguments or information.
---------------------------------------	---------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**Washington DC Academic Standards
Science
Grade 12 - Adopted: 2013**

CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-PS.	PHYSICAL SCIENCE
STANDARD / ESSENTIAL SKILL	HS-PS1.	Matter and Its Interactions
STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:

EXPECTATION	HS-PS1-4.	Develop a model to illustrate that the release or absorption of energy from a chemical reaction system depends upon the changes in total bond energy.
-------------	-----------	-------------------------------------------------------------------------------------------------------------------------------------------------------

CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-PS.	PHYSICAL SCIENCE
STANDARD / ESSENTIAL SKILL	HS-PS3.	Energy
STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:

EXPECTATION HS-PS3-3. Design, build, and refine a device that works within given constraints to convert one form of energy into another form of energy.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-PS.	PHYSICAL SCIENCE
STANDARD / ESSENTIAL SKILL	HS-PS4.	Waves and Their Applications in Technologies for Information Transfer
STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:

EXPECTATION HS-PS4-2. Evaluate questions about the advantages of using a digital transmission and storage of information.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-LS.	LIFE SCIENCE
STANDARD / ESSENTIAL SKILL	HS-LS2.	Ecosystems: Interactions, Energy, and Dynamics
STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:

EXPECTATION HS-LS2-7. Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-ESS.	EARTH AND SPACE SCIENCE
STANDARD / ESSENTIAL SKILL	HS-ESS2.	Earth's Systems
STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:

EXPECTATION HS-ESS2-4. Use a model to describe how variations in the flow of energy into and out of Earth's systems result in changes in climate.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-ESS.	EARTH AND SPACE SCIENCE
STANDARD / ESSENTIAL SKILL	HS-ESS3.	Earth and Human Activity
STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:

EXPECTATION	HS-ESS3-1.	Construct an explanation based on evidence for how the availability of natural resources, occurrence of natural hazards, and changes in climate have influenced human activity.
EXPECTATION	HS-ESS3-2.	Evaluate competing design solutions for developing, managing, and utilizing energy and mineral resources based on cost-benefit ratios.
EXPECTATION	HS-ESS3-3.	Create a computational simulation to illustrate the relationships among management of natural resources, the sustainability of human populations, and biodiversity.
EXPECTATION	HS-ESS3-4.	Evaluate or refine a technological solution that reduces impacts of human activities on natural systems.
EXPECTATION	HS-ESS3-6.	Use a computational representation to illustrate the relationships among Earth systems and how those relationships are being modified due to human activity.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.HS-ETS.	ENGINEERING DESIGN
STANDARD / ESSENTIAL SKILL	HS-ETS1.	Engineering Design
STUDENT EXPECTATION / ESSENTIAL SKILL		Students who demonstrate understanding can:

EXPECTATION	HS-ETS1-1.	Analyze a major global challenge to specify qualitative and quantitative criteria and constraints for solutions that account for societal needs and wants.
EXPECTATION	HS-ETS1-2.	Design a solution to a complex real-world problem by breaking it down into smaller, more manageable problems that can be solved through engineering.
EXPECTATION	HS-ETS1-3.	Evaluate a solution to a complex real-world problem based on prioritized criteria and trade-offs that account for a range of constraints, including cost, safety, reliability, and aesthetics, as well as possible social, cultural, and environmental impacts.

Grade 12 - Adopted: 2010

CONTENT STANDARD / STRAND / DISCIPLINE	DC.11-12.RST.	Reading Standards for Literacy in Science and Technical Subjects
STANDARD / ESSENTIAL SKILL		Key Ideas and Details

STUDENT EXPECTATION / ESSENTIAL SKILL	11-12.RST.2.	Determine the central ideas or conclusions of a text; summarize complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms.
---------------------------------------	--------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

STUDENT EXPECTATION / ESSENTIAL SKILL	11-12.RST.3.	Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.
---------------------------------------	--------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

CONTENT STANDARD / STRAND / DISCIPLINE	DC.11-12.RST.	Reading Standards for Literacy in Science and Technical Subjects
STANDARD / ESSENTIAL SKILL		Craft and Structure

STUDENT EXPECTATION / ESSENTIAL SKILL	11-12.RST.4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 11-12 texts and topics.
---------------------------------------	--------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

STUDENT EXPECTATION / ESSENTIAL SKILL	11-12.RST.5.	Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas.
---------------------------------------	--------------	-----------------------------------------------------------------------------------------------------------------------------------------------

CONTENT STANDARD / STRAND / DISCIPLINE	DC.11-12.RST.	Reading Standards for Literacy in Science and Technical Subjects
STANDARD / ESSENTIAL SKILL		Integration of Knowledge and Ideas

STUDENT EXPECTATION / ESSENTIAL SKILL	11-12.RST.9.	Synthesize information from a range of sources (e.g., texts, experiments, simulations) into a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible.
---------------------------------------	--------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

CONTENT STANDARD / STRAND / DISCIPLINE	DC.11-12.RST.	Reading Standards for Literacy in Science and Technical Subjects
STANDARD / ESSENTIAL SKILL		Range of Reading and Level of Text Complexity

STUDENT EXPECTATION / ESSENTIAL SKILL	11-12.RST.10	By the end of grade 12, read and comprehend science/technical texts in the grades 11-12 text complexity band independently and proficiently.
---------------------------------------	--------------	----------------------------------------------------------------------------------------------------------------------------------------------

CONTENT STANDARD / STRAND / DISCIPLINE	DC.11-12.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STANDARD / ESSENTIAL SKILL		Text Types and Purposes

STUDENT EXPECTATION / ESSENTIAL SKILL	11-12.WHST. T.2.	Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.
----------------------------------------------	-------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------

EXPECTATION 11-12.WHST. 2.d. Use precise language, domain-specific vocabulary and techniques such as metaphor, simile, and analogy to manage the complexity of the topic; convey a knowledgeable stance in a style that responds to the discipline and context as well as to the expertise of likely readers.

CONTENT STANDARD / STRAND / DISCIPLINE	DC.11-12.WHST.	Writing Standards for Literacy in Science and Technical Subjects
STANDARD / ESSENTIAL SKILL		Production and Distribution of Writing

STUDENT EXPECTATION / ESSENTIAL SKILL 11-12.WHST. 4. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.

STUDENT EXPECTATION / ESSENTIAL SKILL 11-12.WHST. 6. Use technology, including the Internet, to produce, publish, and update individual or shared writing products in response to ongoing feedback, including new arguments or information.